

## **ABSTRACT OF THE DISCLOSURE**

### **MONITORING SYSTEM AND METHOD FOR FLUID DISPENSING SYSTEM**

5       An apparatus for monitoring an operation of a fluid dispensing gun  
dispensing a pattern of fluid onto a substrate moving with respect to the  
dispensing gun. The dispensing gun changes operating states in response to  
transition signals. A sensor is disposed adjacent the substrate and provides  
feedback signals in response to detecting edges of the fluid dispensed onto the  
substrate. A diagnostic monitor is responsive to the transition and feedback  
10       signals and automatically measures delays between occurrences of the  
transition signals and detecting corresponding edges of the fluid deposited onto  
the substrate resulting from the transition signals. The delays are measured by  
correlating the feedback signals to the transition signals. A method for  
measuring the delays is also described and claimed.

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